

Message Text

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ORIGIN AEC-11

INFO OCT-01 IO-14 ISO-00 SCI-06 FEA-02 ACDA-19 CIAE-00

INR-11 L-03 NSAE-00 NSC-07 RSC-01 DODE-00 COME-00

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66619

DRAFTED BY USAEC/IP/IAEA:JEAMMONA

APPROVED BY SCI:RTWEBBER

USAEC/IP/DADA&L:RNSLAWSON

IO/SCT:FJGALANTO

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R 232245Z AUG 74

FM SECSTATE WASHDC

TO USMISSION IAEA VIENNA

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E.O.11652:NA

TAGS: IAEA TECH

SUBJ: PROCUREMENT BY IAEA OF MULTISTAGE MASS SPECTROMETER

REF: IAEA VIENNA 7088

1. MISSION REQUESTED ADVISE AGENCY FORMAL SOLICITATION FOR
BIDS AS DISCUSSED REFTEL SHOULD BE SENT FOLLOWING U.S. ORGAN-
IZATIONS WHICH EXPRESSED INTEREST IN AND ARE BELIEVED CAPABLE
SUPPLYING SPECTROMETER:

A. DR. JOEL CARTER, ANALYTICAL CHEMISTRY DIVISION, OAK
RIDGE NATIONAL LABORATORY;

B. TELEDYNE ISOTOPES, 110 W. TIMONIUM ROAD, TIMONIUM, MARYLAND
21093;

C. AVCO ELECTRONICS DIVISION, TULSA OPERATIONS 10700 E.
ENDEPENENCE AVE., TULSA, OKLAHOMA 74115; AND
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D. NUCLIDE CORP., 642 E. COLLEGE AVE., STATE COLLEGE, PENN.
16801.

2. IN ADVISING AEC OF LATTER THREE COMPANIES, J.E. DELMORE
(SUPERVISOR, MASS SPECTROMETRY, ALLIED CHEMICAL CORP, IDAHO)
MADE FOLLOWING COMMENTS WHICH SHOULD BE PASSED AGENCY (WALIGURA).
BELIEVE ALL THREE COULD MEET PERFORMANCE TESTS, BUT AVCO
AND TELEDYNE WOULD DO SO BY USING DIFFERENT HARDWARE FROM
THAT SPECIFIED. AVCO WOULD USE RETARDATION LENS FOR SECOND
STAGE RATHER THAN SECOND MAGNET OR ELECTROSTATIC ANALYZER,
AND WOULD USE ANALOG DETECTION RATHER THAN PULSE COUNTING.
53)3\$6,3 297)\$?78)\$ 8, 547.3,5 8.8)-4 59 5#3 ,? 5-,\$3. 7 8,&
529 .-5:#3\$.-&,35 . THEY REQUIRE THAT SOURCE BE LET UP TO
AIR FOR SAMPLE CHANGING, IN CONTRACT TO SPECIFICATIONS.
COMPANY IN BEST POSITION IS NUCLIDE, AS THEY HAVE PROVEN
HARDWARE FOR ALL POSSIBLE CONFIGURATIONS INCLUDING: TANDEM
(DOUBLE OR ZERO DISPERSION), MAGNETIC SECTOR FOLLOWED BY
ELECTROSTATIC ANALYZER OR RETARDATION LENS, AND TANDEM FOLLOWED
BY ELECTROSTATIC ANALYZER OR RETARDATION LENS. ANY THESE CON-
FIGURATIONS WOULD MEET SPECS, BUT MOST ECONOMICAL IN TERMS OF
COST VS. PERFORMANCE WOULD EITHER BE TANDEM OR SINGLE MAGNETIC
SECTOR FOLLOWED BY ELECTROSTATIC ANALYZER. ONLY DIFFICULTY
THAT NUCLIDE WOULD HAVE IS ECONOMIC. THEY ARE SMALL COMPANY
(70 EMPLOYEES) AND LACK FINANCING TO BUILD SUCH INSTRUMENT
WITHOUT PROGRESS PAYMENTS. ALL THREE COMPANIES ARE IN POSITION
BUILD INSTRUMENT TO MEET PERFORMANCE SPECS, BUT EACH WOULD
HAVE TO TAKE VARIANCE WITH AT LEAST ONE OF THE HARDWARE OR
FINANCIAL SPECS.

3. ADVISE AEC OF FINAL AGENCY DECISION ON SUPPLIER SELECTED
TO PROVIDE SPECTROMETER. KISSINGER

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: PROCUREMENT, EQUIPMENT, NUCLEAR RESEARCH, NUCLEAR SAFEGUARDS
Control Number: n/a
Copy: SINGLE
Draft Date: 23 AUG 1974
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: golinofr
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1974STATE186171
Document Source: CORE
Document Unique ID: 00
Drafter: JEAMMONA
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D740234-0616
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1974/newtext/t19740821/aaaaarqr.tel
Line Count: 92
Locator: TEXT ON-LINE, ON MICROFILM
Office: ORIGIN AEC
Original Classification: LIMITED OFFICIAL USE
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators:
Previous Classification: LIMITED OFFICIAL USE
Previous Handling Restrictions: n/a
Reference: IAEA VIENNA 7088
Review Action: RELEASED, APPROVED
Review Authority: golinofr
Review Comment: n/a
Review Content Flags:
Review Date: 20 MAR 2002
Review Event:
Review Exemptions: n/a
Review History: RELEASED <20 MAR 2002 by shawdg>; APPROVED <16 MAY 2002 by golinofr>
Review Markings:

Declassified/Released
US Department of State
EO Systematic Review
30 JUN 2005

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: PROCUREMENT BY IAEA OF MULTISTAGE MASS SPECTROMETER
TAGS: TECH, IAEA
To: IAEA VIENNA
Type: TE
Markings: Declassified/Released US Department of State EO Systematic Review 30 JUN 2005